RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
UNDERGROUND INJECTION CONTROL PROGRAM

STANDARD DESIGN REQUIREMENTS FOR SHALLOW INJECTION WELLS

1) Separation Distances/Setback Requirements

   a) all systems shall have a minimum separation of three (3) feet between the base of the infiltration system and the maximum elevation of the groundwater table, **evidence of water table elevation must be provided**. Additional setback distance may be required as dictated by the hydrogeological setting;

   b) all systems shall have a minimum separation of five (5) feet from bedrock, **evidence of minimum separation from bedrock must be provided**;

   c) a minimum setback of 400 feet shall be required from all public wells. Additional setback distance may be required as dictated by the hydrogeological setting;

   d) the minimum setback from a private well shall be 100 feet. Additional setback distance may be required as dictated by the hydrogeological setting;

   e) a minimum setback of 200 feet shall be required from surface water supplies and tributaries;

   f) all systems shall have a minimum setback of 150 feet from coastal ponds;

   g) all systems shall have a minimum setback of 50 feet from a non-critical surface water (those not included in Sections 1.e. and 1.f., above);

   h) all systems shall have a minimum setback of 25 feet from all existing on-site disposal systems. Additional setback distance may be required as dictated by the hydrogeological setting;

   i) all systems shall have a minimum setback of 10 feet from all building foundations and slabs;

   j) the minimum infiltration rate shall be 1.0 inches per hour and the maximum rate shall be 7.50 inches per hour, **field percolation or infiltration rate data from area of proposed infiltration system must be provided**.

2) Disposal System Design Criteria (stormwater systems only)

a) all catch basins leading to an infiltration system shall be non-leaching with a minimum sump depth of 4 feet below the invert to the outlet pipe and have a nominal capacity of ± 850 gallons;

b) all catch basin outlet pipes shall be equipped with an elbow pipe extending a minimum of 2 feet below the invert to facilitate the separation and removal of oil and sediment.

3) Disposal System Maintenance

a) the disposal system (s) shall be maintained on a continual basis and shall be the responsibility of the owner of the property on which the system is located. At minimum, yearly cleanout of all oil/water separators shall be performed;

b) a disposal system maintenance report, detailing any operational problems and spill or dumping incidents for the previous 12-month period, shall be submitted to the RIDEM UIC Program on an annual basis.

4) Spill Procedures

a) any inadvertent or deliberate discharge of waste oil or any other pollutant to the stormwater disposal system requires **immediate** notification of this department;

b) any incident of groundwater contamination resulting from the improper discharge of contaminants to the disposal system shall be the responsibility of the property owner. The RIDEM will require the property owner to remediate any incidents that may adversely impact the quality of the groundwater;

c) upon transfer of the property, the future owner shall be informed as to the legal responsibility of operating the disposal system, as indicated.